

Mayor Andy Berke

April 23, 2019

VIA CERTIFIED MAIL

Ms. Sara Janovitz
Environmental Engineer
Clean Water Enforcement Branch
US EPA-Region 4
61 Forsyth Street, SW
Atlanta, GA 30303

Re: United States of America et. al. v. City of Chattanooga, No. 1:12-cv-00245

Quarterly Report No. 23 – January 2019 to March 2019

Dear Ms. Janovitz:

On behalf of the City of Chattanooga, Tennessee ("City"), and in accordance with the consent decree entered by the United States District Court for the Eastern District of Tennessee (Southern Division), on April 24, 2013, in the case styled the United States of America et. al. v. City of Chattanooga, No. 1:12-cv-00245 ("Consent Decree"), we are submitting to both the Environmental Protection Agency ("EPA") and the Tennessee Department of Environment and Conservation ("TDEC") the twenty-second quarterly report required pursuant to paragraph 38 of the Consent Decree. This report is also being submitted in accordance with the letter from Denise Diaz, dated September 16, 2013, establishing the dates for reporting under the Consent Decree.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering such information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Ms. Sara Janovitz April 23, 2019 Page Two

Please let me know if you have any questions regarding our submittal.

Sincerely,

Jeffrey A. Rose, P.E.

Director, Waste Resources Division

Enclosure

cc: Karl Fingerhood, Esq., US DOJ

Chief, Environmental Enforcement Section, US DOJ

Chief, Clean Water Enforcement Branch, US EPA Region 4

Bill Bush, Esq., US EPA

Sohnia Hong, Office of the Attorney General

Enforcement Coordinator, Water Pollution Control, TDEC

Shelby Ward, TN Clean Water Network Adam Sowatzka, Esq., King & Spalding Mike Marino, P.E., Jacobs Engineering



Quarterly Report No. 23

January 1, 2019 - March 31, 2019

Prepared for

United States Environmental Protection Agency and Tennessee Department of Environment and Conservation

City of Chattanooga Waste Resources Division Consent Decree Program Case No. 1:12-cv-00245

Prepared by

City of Chattanooga
Waste Resources Division

Submitted by



Jacobs Engineering Group Inc. Consent Decree Program Manager

Chattanooga, Tennessee

April 23, 2019

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Acronyms and Abbreviations

Ave Avenue

CD Consent Decree

CFR Code of Federal Regulations

CSO Combined Sewer Overflow

CSS Combined Sewer System

Dr Drive

EPA Environmental Protection Agency

Gal Gallons

Hrs Hours

Hwy Highway

Ln Lane

MBWWTP Moccasin Bend Waste Water Treatment Plant

MG Million Gallons

MH Manhole

N/A Not Applicable

No. Number

NPDES National Pollutant Discharge Elimination System

PS Pump Station

Rd Road

SSO Sanitary Sewer Overflow

St Street

TDEC Tennessee Department of Environment and Conservation

Trl Trail

UNK Unknown

WCTS Wastewater Collection and Transmission System

WWTP Wastewater Treatment Plant

1.0 Introduction

1.1 Purpose

The City of Chattanooga entered into a consent decree with the United States and the State of Tennessee in the case styled *United States of America et. al. v. City of Chattanooga, No. 1:12-cv-00245* ("CD"), which became effective on April 24, 2013. Pursuant to Section IX, paragraph 38 of the CD, Chattanooga is required to submit reports on a quarterly basis to the Environmental Protection Agency ("EPA") and Tennessee Department of Environment and Conservation ("TDEC"). Chattanooga has prepared Quarterly Report No.23 to satisfy the reporting requirements of the CD. This report is also being submitted in accordance with the letter from Denise Diaz, dated September 16, 2013, establishing the dates for reporting under the CD.

1.2 Requirements

As detailed in Section IX, paragraph 38 of the CD, Chattanooga is required to report the date, time, location, source, estimated duration and volume, and receiving water of the following events:

- 1. Sanitary sewer overflow ("SSO") events occurring during the reporting period;
- 2. Combined sewer overflow ("CSO") outfall discharges occurring during the reporting period; and
- 3. Bypasses at the Moccasin Bend Wastewater Treatment Plant ("MBWWTP") occurring during the reporting period.

This information is provided in tabular form in Sections 2.0 – 4.0 of this report.

2.0 SSO Events

For the reporting period of January 1, 2019 through March 31, 2019, Chattanooga experienced the SSOs listed in Table 2-1. An SSO event is defined in paragraph 8.(nn) of the CD as "any discharge of wastewater to waters of the United States or State from Chattanooga's Sewer System through a point source not permitted in any National Pollutant Discharge Elimination System ("NPDES") permit, as well as any overflow, spill, or release of wastewater to public or private property from the Sewer System that may not have reached waters of the United States or the State, including all building backups."

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
1	03-Jan-19	8:22 AM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F037	53.63	1,000	Storm Drain	Wet Weather
2	03-Jan-19	8:58 AM	1033 Lupton Dr	Manhole	S118K036	96.53	450,000	Tennessee River	Wet Weather
3	03-Jan-19	1:05 PM	4736 Robinwood Dr	Manhole	S129J059	25.58	5,000	Storm Drain	Wet Weather
4¹	03-Jan-19	3:00 PM	406 Brown Rd	Manhole	S158O004	48.75	500,000	South Chickamauga Creek	Wet Weather
5¹	03-Jan-19	3:00 PM	406 Brown Rd	Manhole	S158I060	48.75	50,000	South Chickamauga Creek	Wet Weather
6	04-Jan-19	8:30 AM	914 Sterling Ave	Manhole	S136H107	73.18	100,000	Tennessee River	Wet Weather
7	04-Jan-19	9:19 AM	1609 S Orchard Knob Ave	Manhole	Unassigned	3.45	85,000	Storm Drain	Wet Weather
8	16-Jan-19	5:30 PM	404 Tunnel Blvd	Service Line	N/A	16.83	500	Storm Drain	Blockage - Grease
9	19-Jan-19	3:00 PM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	16.00	7,742,000	Tennessee River	Wet Weather
10	19-Jan-19	4:35 PM	1033 Lupton Dr	Manhole	S118K036	40.98	50,000	Tennessee River	Wet Weather
11	19-Jan-19	4:40 PM	3857 Birmingham Dr	Manhole	S118D128	21.42	4,500	Tennessee River	Wet Weather
12	19-Jan-19	4:44 PM	640 Lupton Dr	Manhole	S118G087	20.77	12,500	Storm Drain	Wet Weather
13	19-Jan-19	5:18 PM	2914 Hamill Rd	Manhole	S110F014	21.12	27,500	North Chickamauga Creek	Wet Weather
14	19-Jan-19	6:17 PM	914 Sterling Ave	Manhole	S136H107	19.23	45,000	Tennessee River	Wet Weather
15	19-Jan-19	6:41 PM	1520 Dodson Ave	Manhole	S136M010	21.20	1,500	Storm Drain	Wet Weather
16	19-Jan-19	6:52 PM	4500 Gann Store Rd (Big Ridge #2)	Manhole	S111P018	20.13	7,500	Tennessee River	Wet Weather
17	19-Jan-19	6:56 PM	3728 Wilcox Blvd	Manhole	S147B301	20.50	1,500	Storm Drain	Wet Weather
18	19-Jan-19	7:08 PM	5302 Old Mission Rd	Manhole	S157K058	20.48	37,500	Storm Drain	Wet Weather
19	19-Jan-19	8:31 PM	2109 Lynnbrook Ave	Manhole	S156G048	2.27	5,000	Dobbs Branch	Wet Weather
20	19-Jan-19	8:36 PM	Wilcox Blvd & Shallowford Rd	Manhole	S147F015	18.88	1,250	South Chickamauga Creek	Wet Weather
21	19-Jan-19	8:36 PM	2001 S Kelley St	Manhole	S156G030	2.25	6,500	Dobbs Branch	Wet Weather

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
22	23-Jan-19	8:45 PM	122 Rowland Gap Rd (West Bank)	West Bank	S135O217	20.00	3,727,000	Tennessee River	Wet Weather
23	23-Jan-19	10:00 PM	End of MLK BLVD (East Bank)	East Bank	S135O547	5.58	381,000	Tennessee River	Wet Weather
24	23-Jan-19	11:00 PM	1829 Arcie Dr	Manhole	S137N051	3.00	15	South Chickamauga Creek	Blockage - Grease
25¹	23-Jan-19	11:08 PM	1610 Elm St (DuPont PS)	Manhole	S118E055	8.45	1,257	Tennessee River	Wet Weather
26	23-Jan-19	11:15 PM	4500 Gann Store Rd (Big Ridge #2)	Manhole	S111P018	8.45	12,675	Tennessee River	Wet Weather
27	24-Jan-19	8:30 AM	1033 Lupton Dr	Manhole	S118K036	35.00	20,000	Tennessee River	Wet Weather
28	24-Jan-19	9:04 AM	914 Sterling Ave	Manhole	S136H107	23.93	35,000	Tennessee River	Wet Weather
29¹	24-Jan-19	9:30 AM	3857 Birmingham Dr	Manhole	S118D128	4.50	0	Tennessee River	Wet Weather
30	24-Jan-19	9:46 AM	5010 Creekside Preserve	Other	UNK²	23.73	3,000	North Chickamauga Creek	Wet Weather
31	24-Jan-19	10:30 AM	406 Brown Rd	Manhole	S158O006	23.00	70,000	South Chickamauga Creek	Wet Weather
32	24-Jan-19	11:00 AM	406 Brown Rd	Manhole	S158I059	22.50	100	South Chickamauga Creek	Wet Weather
33	24-Jan-19	1:45 PM	3800 Wilcox Blvd and Tailey Rd	Manhole	S147F015	18.75	7,500	South Chickamauga Creek	Wet Weather
34	24-Jan-19	1:45 PM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F039	24.55	15,000	Storm Drain	Wet Weather
35	28-Jan-19	11:30 AM	2843 Waterhaven Dr	Manhole	S128G063	UNK²	4,500	South Chickamauga Creek	Wet Weather
36	31-Jan-19	9:00 AM	1216 Hanover St	Manhole	S136A019	4.50	1,000	Storm Drain	Blockage - Roots
37	01-Feb-19	3:30 PM	34 Woodlawn Dr	Service Line	UNK²	2.50	450	Land*	Blockage - Roots
38	07-Feb-19	3:06 PM	721 Glenwood Dr	Manhole	S146E035	1.15	15	Land*	Blockage - Grease
39	12-Feb-19	1:05 PM	1020 Lupton Dr	Manhole	S118K006	20.25	10,000	Tennessee River	Wet Weather
40	12-Feb-19	1:45 PM	914 Sterling Ave	Manhole	S136H107	19.75	12,500	Tennessee River	Wet Weather
41	15-Feb-19	9:00 AM	707 Ladd Ave	Manhole	S126O079	4.50	540	Land*	Blockage - Roots
42	16-Feb-19	3:05 AM	122 Rowland Gap Rd (West Bank)	Manhole	S135O217	21.17	2,365,000	Tennessee River	Wet Weather

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
43	16-Feb-19	4:10 AM	End of MLK BLVD (East Bank)	East Bank	S135O547	2.75	142,000	Tennessee River	Wet Weather
44	17-Feb-19	9:30 AM	1600 W 16th St	Manhole	S145K352	12.00	2,160	Storm Drain	Blockage - Trash/Debris
45	18-Feb-19	1:45 AM	122 Rowland Gap Road (West Bank)	Manhole	S135O217	562.92	47,664,000	Tennessee River	Wet Weather
46	18-Feb-19	8:50 AM	End of MLK BLVD (East Bank)	East Bank	S135O547	548.25	92,109,000	Tennessee River	Wet Weather
47	18-Feb-19	9:00 AM	914 Sterling Ave	Manhole	S136H107	23.50	21,150	Tennessee River	Wet Weather
48	18-Feb-19	9:09 AM	1020 Lupton Dr	Manhole	S118K006	383.85	10,368,000	Tennessee River	Wet Weather
49	18-Feb-19	9:30 AM	2441 Rossville Blvd	Manhole	S156H018	25.42	137,700	Storm Drain	Wet Weather
50	18-Feb-19	11:30 AM	Wilcox Blvd and Talley Rd	Manhole	S147F015	23.85	7,200	South Chickamauga Creek	Wet Weather
51	18-Feb-19	12:00 PM	406 Brown Rd	Manhole	S158P006	22.75	2,760	South Chickamauga Creek	Wet Weather
52	18-Feb-19	12:00 PM	406 Brown Rd	Manhole	S158P001	22.63	13,500	South Chickamauga Creek	Wet Weather
53	18-Feb-19	1:00 PM	5302 Old Mission Rd	Manhole	S157K058	22.50	4,050	Storm Drain	Wet Weather
54	18-Feb-19	1:00 PM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F039	2.00	360	Storm Drain	Wet Weather
55	19-Feb-19	10:40 AM	Wilcox Blvd and Talley Rd	Manhole	S147F015	166.67	1,872,000	South Chickamauga Creek	Wet Weather
56	19-Feb-19	11:20 AM	1900 E 25th Street Place	Manhole	S156J051	23.48	1,500	Storm Drain	Wet Weather
57	19-Feb-19	10:45 PM	3728 Wilcox Blvd	Manhole	S147B301	11.50	2,500	Ditch*	Wet Weather
58	19-Feb-19	10:55 PM	1022 Shallowford Rd	Manhole	S147G104	13.87	20,000	South Chickamauga Creek	Wet Weather
59	19-Feb-19	11:05 PM	2001 S Kelley St	Manhole	S156G030	11.82	20,000	Dobbs Branch	Wet Weather
60	19-Feb-19	11:10 PM	1820 E 23rd St	Manhole	S156G049	11.80	15,000	Dobbs Branch	Wet Weather
61	19-Feb-19	11:49 PM	Terrace Ave & Young Ave	Manhole	S136A130	129.18	1,770,600	Tennessee River	Wet Weather
62	20-Feb-19	12:04 AM	2032 Crescent Club Dr	Manhole	S110G009	321.93	875,000	North Chickamauga Creek	Wet Weather

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
63	20-Feb-19	12:15 AM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F058	9.00	19,980	Storm Drain	Wet Weather
64	20-Feb-19	12:50 AM	5010 Creekside Preserve	Service Line	UNK²	8.67	25,000	North Chickamauga Creek	Wet Weather
65	20-Feb-19	1:14 AM	3857 Birmingham Dr	Manhole	S118D128	128.18	178,800	Tennessee River	Wet Weather
66	20-Feb-19	1:23 AM	1100 Lupton Dr	Manhole	S118L002	347.62	4,500,000	Tennessee River	Wet Weather
67	20-Feb-19	9:00 AM	2441 Rossville Blvd	Manhole	S156H018	337.75	2,022,000	Storm Drain	Wet Weather
68	20-Feb-19	9:45 AM	4610 Kemp Dr	Manhole	S157C065	123.75	148,800	Storm Drain	Wet Weather
69	20-Feb-19	9:45 AM	4405 N. Choctaw Dr	Manhole	S157B016	174.00	156,600	Storm Drain	Wet Weather
70	20-Feb-19	10:05 AM	6695 Hickory Brook Dr	Manhole	S138M082	23.42	500	Storm Drain	Wet Weather
71	20-Feb-19	10:47 AM	406 Brown Rd	Manhole	S158P001	123.22	236,160	South Chickamauga Creek	Wet Weather
72	20-Feb-19	10:57 AM	406 Brown Rd	Manhole	S158P005	123.05	59,040	South Chickamauga Creek	Wet Weather
73	20-Feb-19	12:27 PM	634 Lupton Dr	Manhole	S118G087	116.80	421,200	Storm Drain	Wet Weather
74	20-Feb-19	12:56 PM	520 Airport Rd	Manhole	S158A019	116.42	105,300	Storm Drain	Wet Weather
75	20-Feb-19	1:16 PM	Jubilee Dr	Manhole	S157E013	142.40	1,287,000	Storm Drain	Wet Weather
76	20-Feb-19	4:00 PM	0 Aim Way	Manhole	S157H046	114.32	690,000	Storm Drain	Wet Weather
77	20-Feb-19	4:30 PM	25 S. Germantown Rd	Manhole	S157A056	12.50	25,000	Storm Drain	Wet Weather
78	20-Feb-19	4:40 PM	3649 Brainerd Rd	Manhole	S157A011	12.33	22,500	Storm Drain	Wet Weather
79	20-Feb-19	8:40 PM	2914 Hamill Rd	Manhole	S110F014	157.53	237,000	North Chickamauga Creek	Wet Weather
80	20-Feb-19	8:45 PM	4500 Gann Store Rd (Big Ridge #2)	Manhole	S111P018	8.83	26,500	Tennessee River	Wet Weather
81	20-Feb-19	11:00 PM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157K069	6.83	6,075	Storm Drain	Wet Weather
82	20-Feb-19	11:55 PM	1610 Elm St (DuPont PS)	Manhole	S118E055	5.08	1,525	Tennessee River	Wet Weather
83	21-Feb-19	9:16 AM	5003 Creekside Preserve	Manhole	S110F021	144.93	348,000	North Chickamauga Creek	Wet Weather
84	21-Feb-19	9:25 AM	406 Brown Rd	Manhole	S158I603	100.58	18,090	South Chickamauga Creek	Wet Weather

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
85	21-Feb-19	1:00 PM	1609 S Orchard Knob Ave	Manhole	UNK²	UNK²	75,000	Storm Drain	Wet Weather
86	21-Feb-19	2:12 PM	406 Brown Rd	Manhole	S158O004	95.80	576,000	South Chickamauga Creek	Wet Weather
87	21-Feb-19	10:15 PM	1610 Elm St (DuPont PS)	Manhole	S118E055	8.25	2,475	Tennessee River	Wet Weather
88	21-Feb-19	11:15 PM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157K069	85.92	421,375	Storm Drain	Wet Weather
89	22-Feb-19	9:10 AM	1609 S Orchard Knob Ave	Manhole	UNK²	72.33	432,000	Storm Drain	Wet Weather
90	22-Feb-19	9:15 AM	2109 Lynnbrook Ave	Manhole	S156G048	76.67	69,300	Dobbs Branch	Wet Weather
91	22-Feb-19	9:25 AM	2001 S Kelley St	Manhole	S156G030	67.58	81,600	Dobbs Branch	Wet Weather
92	22-Feb-19	9:30 AM	6695 Hickory Brook Dr	Manhole	S138M082	71.00	42,600	Storm Drain	Wet Weather
93	22-Feb-19	10:00 AM	25 S. Germantown Rd	Manhole	S157A056	67.00	20,100	Storm Drain	Wet Weather
94	23-Feb-19	7:34 AM	1610 Elm St (DuPont PS)	Manhole	S118E055	49.68	26,400	Tennessee River	Wet Weather
95	23-Feb-19	9:36 AM	3649 Brainerd Rd	Manhole	S157A011	43.40	12,900	Storm Drain	Wet Weather
96	23-Feb-19	11:33 AM	2708 Haywood Ave	Manhole	S127A008	47.12	28,200	Storm Drain	Wet Weather
97	23-Feb-19	12:45 PM	121 N Parkdale Ave	Manhole	S157G002	68.25	8,160	Storm Drain	Wet Weather
98	23-Feb-19	1:00 PM	3812 Provence	Manhole	S157H603	45.35	546,000	Storm Drain	Wet Weather
99	23-Feb-19	2:00 PM	4500 Gann Store Rd (Big Ridge #2)	Manhole	S111P018	67.50	100,500	Tennessee River	Wet Weather
100	24-Feb-19	3:45 PM	5105 N Moore Ln	Manhole	S157D013	18.83	9,120	Storm Drain	Wet Weather
101	24-Feb-19	7:00 PM	5441 Longview Dr	Manhole	S100O005	37.83	64,800	North Chickamauga Creek	Wet Weather
102	25-Feb-19	9:30 AM	3609 Amnicola Hwy	Manhole	S127E027	217.50	2,278,500	Storm Drain	Wet Weather
103	25-Feb-19	9:40 AM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F009	23.17	20,700	Storm Drain	Wet Weather
104	25-Feb-19	9:50 AM	3816 Fagan St (Pump Station)	Manhole	S167D046	24.92	29,900	Chattanooga Creek	Wet Weather
105	25-Feb-19	11:00 AM	1720 Strawberry Ln	Manhole	S110I450	UNK²	6,500	Storm Drain	Wet Weather
106	26-Feb-19	6:00 PM	600 River St	Manhole	S135L005	231.50	7,500,000	Tennessee River	Wet Weather

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
107	27-Feb-19	12:40 PM	3609 Amnicola Hwy	Manhole	S127E014	142.33	980,000	Tennessee River	Wet Weather
108	03-Mar-19	3:30 PM	914 Sterling Ave	Manhole	S136H107	41.85	350,000	Tennessee River	Wet Weather
109	03-Mar-19	3:57 PM	1820 E 23rd St	Manhole	S156G049	13.05	65,000	Dobbs Branch	Wet Weather
110	03-Mar-19	4:15 PM	2001 S Kelley St	Manhole	S156G030	12.75	7,200	Dobbs Branch	Wet Weather
111	03-Mar-19	5:25 PM	4700 Shallowford Rd	Manhole	S148A011	39.08	75,000	South Chickamauga Creek	Wet Weather
112	05-Mar-19	5:00 PM	HWY 58 & McDaniel Rd	Force Main	UNK²	3.00	600	UNK	Break
113	06-Mar-19	9:50 AM	171 Baylor School Road	Manhole	S126H004	25.17	10,000	Tennessee River	Wet Weather
114	09-Mar-19	9:15 AM	2109 Lynnbrook Ave	Manhole	S156G048	49.00	9,500	Dobbs Branch	Wet Weather
115	09-Mar-19	9:50 AM	2013 S Kelley St	Manhole	S156G022	48.42	1,500	Dobbs Branch	Wet Weather
116	09-Mar-19	10:20 AM	5010 Creekside Preserve	Other	UNK²	48.00	125,000	North Chickamauga Creek	Wet Weather
117	09-Mar-19	10:40 AM	1020 Lupton Dr	Manhole	S118K006	76.58	600,000	Tennessee River	Wet Weather
118	09-Mar-19	10:50 AM	640 Lupton Dr	Manhole	S118G087	47.67	140,000	Ditch*	Wet Weather
119	09-Mar-19	12:45 PM	Wilcox Blvd & Shallowford Rd	Manhole	S147F015	45.75	225,000	South Chickamauga Creek	Wet Weather
120	09-Mar-19	8:40 PM	5203 Old Mission Rd (Brainerd Golf Course PS)	Manhole	S157F013	13.42	20,000	Storm Drain	Wet Weather
121	09-Mar-19	11:01 PM	1610 Elm St (DuPont PS)	Manhole	S118E055	21.83	14,800	Tennessee River	Wet Weather
122	10-Mar-19	10:45 AM	5302 Old Mission Rd	Manhole	S157K058	23.95	45,000	Storm Drain	Wet Weather
123	10-Mar-19	12:00 PM	2441 Rossville Blvd	Manhole	S156H018	89.33	210,000	Storm Drain	Wet Weather
124	10-Mar-19	2:25 PM	4610 Kemp Drive	Manhole	S157C065	67.08	15,000	Storm Drain	Wet Weather
125	11-Mar-19	7:25 AM	914 Sterling Ave	Manhole	S136H107	24.83	200,000	Tennessee River	Wet Weather
126	11-Mar-19	9:00 AM	2003 Curtain Pole Rd	Manhole	S136G004	6.50	1,500	Storm Drain	Wet Weather
127	11-Mar-19	11:00 AM	1095 Fernway Rd	Main Line	UNK²	27.00	150	Storm Drain	Break
128	12-Mar-19	8:00 AM	3609 Amnicola Hwy	Manhole	S127E027	31.50	235,000	Storm Drain	Wet Weather
129	12-Mar-19	10:00 AM	600 River St	Manhole	S135L005	24.00	450,000	Tennessee River	Wet Weather
130	15-Mar-19	8:59 AM	1020 Lupton Dr	Manhole	S118K006	24.12	200,000	Tennessee River	Wet Weather

2.0 – SSO Events Quarterly Report 23

Table 2-1 **Quarterly SSO Report**

SSO ID	Start Date	Start Time	Location	Source	MH ID#	Estimated Duration (hrs)	Estimated Volume (gal)	SSO Destination	Cause
131	19-Mar-19	4:00 PM	423 Monya Ln	Manhole	S158G851	4.00	3,600	Storm Drain	Blockage - Roots
132	19-Mar-19	5:00 PM	4504 Eldridge	Manhole	S109E039	17.50	6,500	Storm Drain	Blockage - Trash/Debris

Common cause, within 500 yards of separate event.
 This information was not available at time of reporting.
 Did not reach waters of the United States

3.0 Moccasin Bend WWTP Bypasses

The CD sets forth the same definition for bypass as the EPA's regulations at 40 C.F.R. § 122.41(m), which defines a bypass as the intentional diversion of waste streams from any portion of a treatment facility. The City's current NPDES permit defines a bypass as the intentional diversion of wastewater away from any portion of a treatment facility other than through peak excess flow treatment facilities or permitted outfalls in accordance with both the long-term control plan and the nine minimum technology-based effluent controls for combined sewer systems. The City reports bypasses and wet weather discharges separately on the monthly Discharge Monitoring Reports, as a discharge from the City's permitted wet weather discharge is not a bypass under the City's current NPDES permit. Based on the foregoing, the WWTP experienced no bypasses during the reporting period of January 1, 2019 through March 31, 2019.

4.0 CSO Outfall Discharges

For the reporting period of January 1, 2019 through March 31, 2019, Chattanooga experienced CSO discharges from CSO outfall treatment facilities as listed in Table 4-1. Paragraph 8.(h) of the CD defines a CSO as "any discharge from the CSS from any outfall currently identified, or identified in the future, as a permitted combined sewer overflow outfall in any Chattanooga NPDES permit from which CSOs are discharged to waters of the United States or the State." The CSS is defined as the portion of Chattanooga's wastewater collection and transmission system ("WCTS") designed to convey municipal sewage (domestic, commercial and industrial wastewaters) and storm water runoff through a single-pipe system to Chattanooga's WWTP or CSO outfalls. Chattanooga operates eight (8) permitted CSO outfall treatment facilities, eight (8) of which discharged during the reporting period.

Quarterly Report 23 4.0 - CSO Outfall Discharges

Table 4-1 Quarterly CSO Outfall Discharge Report

	January 1, 2019 – March 31, 2019							
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause		
01-Jan-19	12:01 AM	ML King CSO (007)	12.45	0.050939	Tennessee River	Rain Eve		
01-Jan-19	12:15 AM	Citico CSO (004)	21.38	10.171042	Tennessee River	Rain Eve		
03-Jan-19	12:31 AM	19th St CSO (008)	6	1.582171	Tennessee River	Rain Eve		
03-Jan-19	4:30 AM	ML King CSO (007)	57.61	1.266783	Tennessee River	Rain Eve		
03-Jan-19	11:24 AM	Citico CSO (004)	91.6	8.233931	Tennessee River	Rain Eve		
04-Jan-19	5:17 AM	Tremont CSO (005)	0.62	0.007027	Tennessee River	Rain Eve		
19-Jan-19	10:20 AM	Tremont CSO (005)	8.92	1.415671	Tennessee River	Rain Eve		
19-Jan-19	10:38 AM	ML King CSO (007)	42.71	2.345324	Tennessee River	Rain Eve		
19-Jan-19	11:20 AM	Carter St CSO (009)	7.58	5.055012	Tennessee River	Rain Eve		
19-Jan-19	1:01 PM	Citico CSO (004)	37.6	6.788560	Tennessee River	Rain Eve		
19-Jan-19	1:11 PM	Central Ave CSO (002)	7.01	8.318460	Chattanooga Creek	Rain Eve		
19-Jan-19	3:39 PM	19th St CSO (008)	2.42	0.503045	Tennessee River	Rain Eve		
19-Jan-19	4:28 PM	Ross's Landing CSO (006)	1.53	0.802720	Tennessee River	Rain Eve		
19-Jan-19	9:14 PM	Williams St CSO (003)	62.65	1.025736	Chattanooga Creek	Rain Eve		
23-Jan-19	4:17 PM	19th St CSO (008)	9.83	5.229094	Tennessee River	Rain Eve		
23-Jan-19	4:59 PM	Williams St CSO (003)	18.87	1.006805	Chattanooga Creek	Rain Eve		
23-Jan-19	5:01 PM	Citico CSO (004)	39.27	13.082172	Tennessee River	Rain Eve		
23-Jan-19	5:21 PM	Tremont CSO (005)	10.35	2.107217	Tennessee River	Rain Eve		
23-Jan-19	5:37 PM	ML King CSO (007)	13.44	2.283469	Tennessee River	Rain Eve		
23-Jan-19	7:20 PM	Ross's Landing CSO (006)	4	3.273876	Tennessee River	Rain Eve		
12-Feb-19	9:49 AM	Tremont CSO (005)	3.28	0.374337	Tennessee River	Rain Eve		
12-Feb-19	10:16 AM	ML King CSO (007)	12.35	1.323030	Tennessee River	Rain Eve		
12-Feb-19	10:40 AM	Citico CSO (004)	8.7	4.081952	Tennessee River	Rain Eve		
12-Feb-19	11:01 AM	19th St CSO (008)	3.93	0.583516	Tennessee River	Rain Eve		
12-Feb-19	11:12 AM	Carter St CSO (009)	22.74	17.962417	Tennessee River	Rain Eve		

Quarterly Report 23 4.0 - CSO Outfall Discharges

Table 4-1 Quarterly CSO Outfall Discharge Report

	January 1, 2019 – March 31, 2019							
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause		
12-Feb-19	12:41 PM	Central Ave CSO (002)	14.8	7.512787	Chattanooga Creek	Rain Eve		
15-Feb-19	10:33 PM	19th St CSO (008)	5.97	2.993047	Tennessee River	Rain Eve		
15-Feb-19	11:51 PM	ML King CSO (007)	162.11	12.246960	Tennessee River	Rain Eve		
16-Feb-19	3:01 AM	Tremont CSO (005)	0.68	0.086319	Tennessee River	Rain Eve		
16-Feb-19	3:12 AM	Citico CSO (004)	428.2	340.429099	Tennessee River	Rain Eve		
17-Feb-19	12:05 PM	Williams St CSO (003)	164.73	22.446156	Chattanooga Creek	Rain Eve		
17-Feb-19	7:18 PM	Tremont CSO (005)	59.82	22.197133	Tennessee River	Rain Eve		
19-Feb-19	2:33 PM	19th St CSO (008)	10.65	7.558483	Tennessee River	Rain Eve		
19-Feb-19	9:10 PM	Ross's Landing CSO (006)	3.43	3.725645	Tennessee River	Rain Eve		
20-Feb-19	2:41 PM	19th St CSO (008)	5.48	4.791868	Tennessee River	Rain Eve		
20-Feb-19	4:00 PM	Ross's Landing CSO (006)	3	2.817212	Tennessee River	Rain Eve		
21-Feb-19	5:26 PM	19th St CSO (008)	7.95	4.581287	Tennessee River	Rain Eve		
21-Feb-19	8:41 PM	Ross's Landing CSO (006)	3.32	1.057452	Tennessee River	Rain Eve		
23-Feb-19	12:35 AM	19th St CSO (008)	41.69	22.800844	Tennessee River	Rain Eve		
23-Feb-19	12:41 AM	Tremont CSO (005)	21	3.882837	Tennessee River	Rain Eve		
23-Feb-19	5:05 AM	Ross's Landing CSO (006)	6.23	5.546703	Tennessee River	Rain Eve		
23-Feb-19	10:40 PM	Ross's Landing CSO (006)	3.1	1.854571	Tennessee River	Rain Eve		
01-Mar-19	12:00 AM	Central Ave CSO (002)	386.58	195.566000	Chattanooga Creek	Rain Eve		
01-Mar-19	12:00 AM	Citico CSO (004)	380.33	492.876718	Tennessee River	Rain Eve		
01-Mar-19	6:10 AM	ML King CSO (007)	3.08	0.846000	Tennessee River	Rain Eve		
01-Mar-19	6:23 AM	19th St CSO (008)	3.62	0.188000	Tennessee River	Rain Eve		
03-Mar-19	11:25 AM	ML King CSO (007)	7.07	3.341000	Tennessee River	Rain Eve		
03-Mar-19	11:42 AM	19th St CSO (008)	9.2	1.056000	Tennessee River	Rain Eve		
03-Mar-19	1:11 PM	Ross's Landing CSO (006)	3.5	3.610575	Tennessee River	Rain Eve		
04-Mar-19	3:23 AM	Williams St CSO (003)	84.5	1.682260	Chattanooga Creek	Rain Eve		

Quarterly Report 23 4.0 - CSO Outfall Discharges

Table 4-1 Quarterly CSO Outfall Discharge Report

January 1, 2019 – March 31, 2019						
Start Date	Start Time	Location/Nearest Stream	Duration (hrs)	Volume (MG)	Receiving Water	Cause
05-Mar-19	11:55 PM	ML King CSO (007)	0.08	0.013000	Tennessee River	Rain Even
08-Mar-19	9:45 AM	ML King CSO (007)	56.41	14.328000	Tennessee River	Rain Even
08-Mar-19	1:18 PM	Williams St CSO (003)	72.78	5.631496	Chattanooga Creek	Rain Even
08-Mar-19	1:19 PM	19th St CSO (008)	11.2	2.303000	Tennessee River	Rain Even
08-Mar-19	10:37 PM	Ross's Landing CSO (006)	5.55	6.303881	Tennessee River	Rain Even
09-Mar-19	6:15 PM	19th St CSO (008)	9	0.407000	Tennessee River	Rain Ever
09-Mar-19	7:40 PM	Ross's Landing CSO (006)	3	2.242525	Tennessee River	Rain Even
13-Mar-19	9:55 PM	ML King CSO (007)	3.08	0.882000	Tennessee River	Rain Ever
14-Mar-19	10:35 PM	ML King CSO (007)	15.5	2.342000	Tennessee River	Rain Even
14-Mar-19	11:18 PM	Tremont CSO (005)	0.28	0.027342	Tennessee River	Rain Ever
15-Mar-19	1:41 AM	19th St CSO (008)	1.99	0.265003	Tennessee River	Rain Even